

**AMENDMENTS TO THE SPECIFICATION**

**Page 1**

After line 3, please **delete** the heading “TECHNICAL FIELD”, and **replace** with the following headings:

**BACKGROUND OF THE INVENTION**

1. Field of the Invention

After paragraph [0001], please **delete** the heading “BACKGROUND ART” and **replace** with the following heading:

2. Description of the Related Art

**Page 4**

After paragraph [0011], please **delete** the following headings:

DISCLOSURE OF THE INVENTION  
PROBLEMS TO BE SOLVED BY THE INVENTION

**Page 6**

After paragraph [0019], please **add** the following heading:

**SUMMARY OF THE INVENTION**

**Page 9**

After paragraph [0030], please **delete** the following heading:

**MEANS FOR SOLVING PROBLEM**

**Page 19**

After paragraph [0054], please **delete** the following heading:

**EFFECTS OF THE INVENTION**

**Page 21**

After paragraph [0059], please **amend** the specification as follows:

Please **delete** the heading “**BEST MODE FOR CARRYING OUT THE INVENTION**”

and replace with the following new paragraphs and headings:

**BRIEF DESCRIPTION OF THE DRAWINGS**

FIG. 1A is a sectional view showing a manipulator according to an embodiment of the present invention; FIG. 1B is a side view showing an outer case; and FIG. 1C is a sectional view showing its front end portion.

FIG. 2A is a perspective view showing a joint arm in the manipulator according to the embodiment of the present invention; FIG. 2B is a perspective view showing a connecting pin for connecting; and FIG. 2C is a sectional view showing a positional relation between the actuator portion and the joint portion at the time of joint and separation.

FIGS. 3A-3C are perspective views showing a method for joining the actuator portion and the joint portion in the manipulator according to the embodiment of the present invention.

FIG. 4 is a perspective sectional view showing a link guide portion in the frame of the manipulator according to the embodiment of the present invention.

FIG. 5A is a perspective view showing a second articulation portion equipped in the manipulator according to the embodiment of the present invention; and FIG. 5B is a sectional view showing a joint portion.

FIG. 6 is a diagram for explaining the multi-slider linkage mechanism of a related art.

FIGS. 7A and 7B are diagrams for explaining hang-up phenomenon (scuffing phenomenon) in the multi-slider linkage mechanism of the related art.

#### DETAILED DESCRIPTION OF THE INVENTION

##### **Pages 39 and 40**

Please **delete** the entire “BRIEF DESCRIPTION OF THE DRAWINGS” section beginning on page 39, line 5 and ending on page 40, line 7.